

## **ASTR 288C**

### **Homework 10**

Due Monday, 30 November 2009

- 1) Why is high-energy astronomy a relatively new field of science?
- 2) Why can lenses and mirrors not be used to build an imaging gamma-ray telescope?
- 3) Surveys of the sky in X-rays have shown that our galaxy is filled with hot gas with a thermal spectrum at a temperature of a few thousand degrees. Why has this hot gas not been detected with any of the past or currently orbiting gamma-ray missions?